

ABSTRACT

A valve for automatically and proportionally adjusting fluid flow between an engine and a radiator for cooling the fluid heated by the engine in response to changes in fluid temperature within a range of operating temperatures. The valve includes a housing having a chamber. The housing includes a radiator flow port for passing fluid between the radiator and the chamber, ~~a bypass flow port for passing fluid between the engine and the chamber,~~ and ~~an engine flow port for passing fluid between the chamber and the engine.~~ A vane pivotally disposed in the chamber has a vane wall engagable with both the radiator and ~~bypass fluid ports~~ port for restricting fluid flow ~~through the radiator and bypass fluid ports.~~ ~~The vane is pivotally coupled to the housing for movement between the radiator and bypass fluid ports.~~ A drive assembly is operatively coupled to the vane for varying the position of the vane within the chamber.